

**ABSTRACT OF THE DISCLOSURE**  
**NOISE CANCELLATION SYSTEM AND HEADPHONE THEREFORE**

5       A noise cancellation system includes a headphone having a sound transducer and a  
headphone speaker. Noise cancellation circuitry is provided remote from the headphone and  
supplies the headphone speaker and is supplied from the sound transducer. A filter normalizes  
the output from the sound transducer of the headphone to the noise cancellation circuitry.